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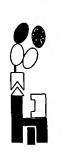
- (30) Priority Data: 02405838.0 27 September 2002 (27.09.2002)
- (71) Applicant (for all designated States except US): VAC-CINEX, INC. [US/US]; 1895 Mt. Hope Avenue, Rochester, NY 14620 (US).
- (71) Applicants and
- (72) Inventors (for US only): ROBERT, Bruno [FR/FR]; 1 rue de l'Argenterie, F-30170 Saint Hippolyte du Four (FR). DONDA, Alena [CH/CH]; La Maison Rouge, CH-1080 Les Cullayes (CH). CESSON, Valerie [FR/FR]; Residence Mont-Lac, 42 Route Nationale, F-74500 Saint Gingolph (FR). MACH, Jean-Pierre [CH/CH]; 300 route de Lausanne, CH-1293 Bellevue (CH).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ZAUDERER, Maurice [US/US]; 44 Woodland Road, Pittsford, NY 14534 (US).
- (74) Agents: STEFFE, Eric, K. et al.; Sterne, Kessler, Goldstein & Fox, P.L.L.C., 1100 New York Avenue, Washington, DC 20005 (US).
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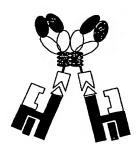
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(54) Title: TARGETED CD1D MOLECULES

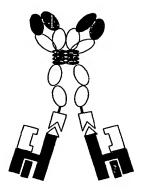
#### Antibody-avidin fusion protein/ biotinylated CD1d







F(ab')2-Av-CD1d



IgG-Av-CD1d





lg Hinge



**B2** Microglobulin

Avidin

Δ

Biotin

(57) Abstract: The invention is directed to a compound comprising one or more CD1d complexes in association with an antibody specific for a cell surface marker. The CD1d complexes comprise a CD1d, a 82-microglobulin molecule, and may further comprise an antigen bound to the CD1d binding groove. The invention is further directed to methods of inhibiting or stimulating an immune response with the CD1d-antibody compounds, in particular anti-tumor and autoimmunity responses.





#### Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

#### Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

International application No. INTERNATIONAL SEARCH REPORT PCT/US03/30238 CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 39/00, 39/385, 39/44 530/350, 402; 424/185.1, 178.1, 193.1 **US CL** According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 530/350, 402; 424/185.1, 178.1, 193.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category \* 1-9 US 2002/0071842 A1 (GUMPERZ et al) 13 June 2002 (13.06.2002), see entire document. 1-9 Y WO 01/78768 A2 (UNIVERSITY OF ROCHESTER [US/US]) 25 October 2001 (25.10.2001), see entire document. Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or priority Special categories of cited documents: date and not in conflict with the application but cited to understand the "A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance "X" document of particular relevance; the claimed invention cannot be "F" earlier application or patent published on or after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to "Y" document of particular relevance; the claimed invention cannot be establish the publication date of another citation or other special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination **"**O" being obvious to a person skilled in the art document referring to an oral disclosure, " · exhibition or other means document published prior to the international aling date but later than the "R:" document member of the same patent family priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 23 June 2004 (23.06.2004) ruspence for Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

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Alexandria, Virginia 22313-1450

P.O. Box 1450

Facsimile No. (703) 305-3230

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30238

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.	$\boxtimes$	Claim Nos.: 10-48 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	nark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

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INTERNATIONAL SEARCH REPORT	
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Continuation of B. FIELDS SEARCHED Item 3:	
WEST 2.2, STN(EMBASE, BIOSIS, MEDLINE, CAPLUS, SCISEARCH)	
search terms: inventors' names, cd1d, autoimmune, sphingosine, acyl, antibody, n mog, mdp, plp, islet	nab, complex, a-GaiCer, cea, cd19, cd83, bdca-2,
mog, map, pp, isia	
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